

Utilization at Network, Transport and Application Layers in Store and Forward Network;"

U.S. patent application Ser. No. 09/198,090 now U.S. Pat. No. 6,412,000, in the name of Guy Riddle and Robert L. Packer, entitled "Method for Automatically
5 Classifying Traffic in a Packet Communications Network;"

U.S. patent application Ser. No. 09/966,538, in the name of Guy Riddle,
entitled "Dynamic Partitioning of Network Resources;" ^(which is now pending) and

U.S. patent application Ser. No. 09/885,750, ^(which is now abandoned) in the name of Scott Hankins and Brett Galloway, entitled "System and Method For Dynamically Controlling a Rogue
10 Application Through Incremental Bandwidth Restrictions."

FIELD OF THE INVENTION

The present invention relates to computer networks and, more particularly, to methods, apparatuses and systems allowing for deployment of volume-based network
15 policies.

BACKGROUND OF THE INVENTION

Entities, such as colleges and universities, are growing increasingly dependent on computer network infrastructures to provide services and accomplish tasks.
20 Indeed, a wide variety of administrative and educational tasks are now allocated to servers operably connected to a campus network. Moreover, Internet or other wide area computer network access is a standard and expected aspect of the services provided to students by colleges and universities. As the number of users, applications and external traffic increases, however, network congestion forms,
25 impairing computer network performance. For example, peer-to-peer file sharing technologies, such as Napster, Morpheus, and the like, have unleashed a relative explosion of network utilization among college students creating myriad problems for network administrators and degrading the quality of service provided to other uses of the network. Network administrators, therefore, are constantly challenged with
30 determining the volume, origin and nature of network traffic to align network resources with educational and administrative priorities and applications.